

MILITARY
RUSSIA

DOMESTIC MILITARY EQUIPMENT (after 1945)

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ARTICLESFORUM

Typhoon (project)

DATA AS OF 2010 (standard replenishment)
Typhoon complex, Typhoon missiles, Typhoon-1, Typhoon-III, Typhoon-IV
★★★

A project for an anti-submarine missile system (ASMS) with a ballistic missile and a nuclear depth charge as a warhead. Developed by NII-1 GKOT (lead developer) in accordance with the Resolutions of the Central Committee of the CPSU and the USSR Council of Ministers dated June 20, 1958. Chief Designer of the system N.P. Mazurov. After A.D. Nadiradze joined NII-1 (since May 16, 1958, Head of the Special Design Bureau and Assistant Deputy Director for R&D), it was proposed to create a lightweight version of the Typhoon missile - the Typhoon-1 missile. On May 12-15, 1959, a scientific and technical meeting was held at SKB-221 (developer of the launchers for the system), at which a preliminary design for the Br-222-VI launcher and Br-223 TZM was adopted. Later, a preliminary design for the system and missiles was defended in Moscow at NII-1.

The defense of the preliminary designs of the complex and missiles took place on June 9, 1959, in the 1st Directorate of the State Defense Committee. The head of KB-25 (now the All-Russian Scientific Research Institute of Automation named after N.L. Dukhov) Dukhov N.L. (developers of the warhead) spoke out against the use of nuclear depth charges as the warhead of the complex, since the use of a special charge using a launcher and a Typhoon missile is unsafe for both warring parties. After reviewing the developments on the complex, the development was completely stopped in 1959.

Stationary PU Br-219-1 with the Typhoon missile of the Typhoon complex (Ryabets A.F., The failed Typhoon. // Equipment and Armament. 2010)

Author: DIMMI

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COMPANY (1965-1971)

DATA AS OF 2010 (standard replenishment)
ROTA ("Mission operational-tactical army")

Operational-tactical missile system of the army level. Research and development work on the ROTA topic was conducted in 1965 by SKB-385 (Miass) with the aim of replacing the R-17 operational -tactical missile (9K72 system). The research and development work was based on the experience of creating the R-27 type SLBM. The project was not developed - the USSR Ministry of Defense preferred the solid-fuel "Tem-S". Development was stopped at the design stage.

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ROTA missile (SKB-385, Machine-building Design Bureau, State Research Center "Academician V.P. Makeyev Design Bureau")

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Author: [DIMMI](#)

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8P51 (1954)

DATA AS OF 2010 (standard replenishment)
Missile 8R51

Tactical missile. Designed since 1952 by SKB-385 (Zlatoust) on a competitive basis in competition with the [Korshun](#) missile by NII-88. The missile lost the competition and development was stopped in September 1954.

Guidance was supposed to be carried out by a launcher, and stabilization of the missiles in flight was supposed to be carried out using stabilizers.

Author: [DIMMI](#)

Created: 28.01.2010 00:12:54

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Wave (project, 1980s)

DATA FOR 2009 (standard update)
Complex "Wave"

Unified modular missile system of the ground forces for operational-tactical (extended range) purposes. R & D was conducted by the Design Bureau of Mechanical Engineering (city of Kolomna, hereinafter referred to as KBM) under the supervision of S.P. Nepobedimy, probably in the mid- to late 1980s using the developments on [the Oka-U](#) and [Volga](#) systems . Depending on the tactical tasks, it was assumed that different versions of missiles would be used based on a single first-stage missile block - from a single-stage OTR to a two-stage OTR with an extended range. Apparently, work on the system did not go beyond the scope of R & D. There is no other data; the available information has not been confirmed.

Guidance - it was assumed that the control systems of the missile variants would be maximally unified and that different missile variants would be coupled with a single aiming system of the launch complex. Developments on similar components of the [Oka-U](#) and [Volga](#) complexes were used . It was probably assumed that the missile would be re-targeted in flight and that a warhead with a homing head would be used.

Author: [DIMMI](#)

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Owl (project)

DATA FOR 2010 (standard update)**Sych (project)**

An operational-tactical missile for the army level. The development was carried out by NII-1 (later renamed the Moscow Institute of Thermal Engineering, chief designer A.D. Nadiradze) as part of the Luch R&D project together with the development of the [Grach](#) TR and the Luch ICBM with ramjet solid-propellant rocket engines, created as part of a competition with the Gnome ICBM with ramjet solid-propellant rocket engines by B.I. Shavyrin's KBM. The missile was not built, only a mock-up of the Grach missile was tested; based on the test results, all work on ramjet solid-propellant rocket engines was stopped by order of D.F. Ustinov in 1964.

Author: [DIMMI](#)

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Rook (project)

DATA FOR 2010 (standard update)**Grach (project)**

Tactical division-level missile. Development was carried out by NII-1 (later renamed the Moscow Institute of Thermal Engineering, chief designer A.D. Nadiradze) in the early 1960s as part of the Luch R&D project together with the development of the [Sych](#) operational-technical rocket and the Luch ICBM with ramjet solid-propellant engines, created as part of a competition with the Gnome ramjet solid-propellant engine ICBM by B.I. Shavyrin's KBM. A full-scale flight mockup of the missile was built to test the operation of this type of solid-propellant engine. Missile tests (1 launch) were presumably carried out at the Kapustin Yar test site in 1963-1964. All work on ramjet solid-propellant engines was stopped by order of D.F. Ustinov in 1964.

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OTR KBP (project)

OTR KBP (project)

Operational-tactical missile system. It was developed by the Instrument-making Design Bureau (hereinafter referred to as KBP) under the leadership of General Designer A.G. Shipunov as a competitor to the [Iskander](#) system developed by KBM. The development was presumably carried out in the late 1980s - early 1990s. There is no other data.

Author: [DIMMI](#)

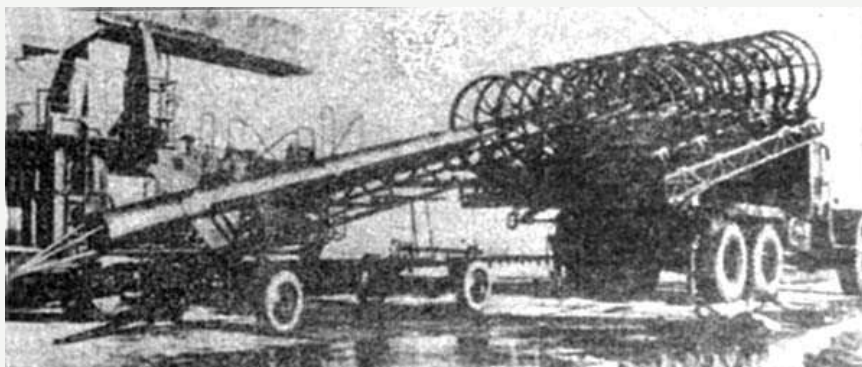
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036 "Whirlwind"

DATA FOR 2009 (standard update)**Complex "Whirlwind"****Rocket "025" (early prototype)****Rocket "034" (prototype)****Rocket "036"****Missile "036A" (modernization)**

Tactical missile system. Developed according to the USSR CM Resolution No. 189-89 of February 13, 1958 (the same resolution specified work on the 3M8 SAM of the Krug system) in OKB-670 GKAT, chief designer M.M. Bondaryuk, leading designer I.M. Vishnepolsky. Tactical and technical requirements No. 007589 were issued by the Main Artillery Directorate on April 14, 1958: "A mobile field rocket system with an unguided rocket with a SPVRD is intended to destroy targets in tactical and short-range operational depth. The main targets are enemy reserves, manpower, combat equipment in concentration areas, subdivisions and units of rocket artillery at launch-technical and waiting positions, field bases for the assembly of atomic weapons, important objects of the enemy army rear, large headquarters and communication centers, airfields, railway stations." When creating the "036" rocket, the developments in the creation of the experimental "025" and "034" rockets were used (see Modifications). The draft design was approved on June 30, 1958. Testing of the "036" missile began at the Vladimirovka test site (Astrakhan Region) in 1958. Based on the "036" missile, the "036A" missile was developed and tested. All work was stopped in 1960. The missile was not accepted into service. By default, the data of the "036" missile.



Loading the Br-215 launcher of the Vikhr complex with the 034 missile (Erohin E., missiles from Bondaryuk. // Wings of the Motherland. No. 11 / 1993)

Author: [DIMMI](#)

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56cm RAK(E) - project

56 cm RAK(E), RS-142 projectile

Project of a rocket launcher. Developed in October 1946 by a group of German designers working in the artillery and mortar group of the USSR Ministry of Armaments. The fate of the project is unknown.

Guidance - unguided missile, guidance by launcher. Stabilization of the missile was achieved by rotation (30 inclined nozzles).

Author: [DIMMI](#)

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9M24 "Reseda"

Rezeda complex, 9M24 missile

Tactical missile system of battalion level. R & D started in the early 1960s by NII-147 with the participation of TsKB-14. The system was an analogue of the Davy-Crocket system (USA). Factory tests of the system elements were carried out, state tests were planned to be carried out in the 2nd quarter of 1965. Work stopped.

Guidance - the missile is unguided, guidance is provided by the launcher.

Author: [DIMMI](#)

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